

## ABSTRACT OF THE DISCLOSURE

The present invention has the purpose of providing technology capable of efficiently transmitting data when performing data communications between a mobile station and a server apparatus. A simplified protocol TL is employed on the transport layer instead of TCP/IP. The simplified protocol TL is used as the communication protocol on a wireless communication path (radio-oriented interval) between an MS (Mobile Station) 1 and a GWS (GateWay Server) 5. The simplified TL protocol is utilized to relay data communications between the MS 1 and a CPS 8 (Content Provider Server). The response of data communications is therefore improved by a decrease in traffic between the MS 1 and the GWS 5 and reduction in overhead in comparison to when TCP/IP is deployed. As a result, the user can efficiently access content provided by the CPS 8 over the Internet via a wireless communication path. Efficient access may occur even where the wireless communication path has low data transmission capacity in comparison to a wireline communication path. In addition, efficient access may occur where the user is using an MS 1 which has insufficient data processing power to deploy TCP/IP.